

**Notice of Allowability**

Application No.

10/736,469

Examiner

Samuel J. Walk

Applicant(s)

GRUHLE ET AL.

Art Unit

2632

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/08/2005.
2. ☒ The allowed claim(s) is/are 15-18, 22-25, 27-30 and 32-36.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

**DETAILED ACTION**

***Status of Claims***

1. In the Amendment dated 12/08/2005, Applicant cancelled Claims 19-21, 26 and 31 were cancelled and Claims 35-36 have been added; therefore, Claims 15-18, 22-25, 27-30 and 32-36 remain pending.

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stephan Pendorf on 02/13/2006.

The application has been amended as follows:

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15. A device for testing electric motors for functionality, said device including:

an antenna for receiving electromagnetic alternating fields generated by the operation of said electric motor;

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an amplifier for amplification of the received signal,  
an analog-digital converter for converting the received signal into a digital signal,  
a unit for analysis of the received signals for signal components in the frequency range of the rotation value of electric motors or their harmonics, said unit for analysis being a device for digital signal processing and including a bandpass filter unit with a bandpass width corresponding at least partially to the conventional prevalent frequency range of the rotation values of electric motors or the harmonics thereof, and  
an indicator unit for signaling functionality.

17. A device for testing electric motors for functionality, said device including:

an antenna for receiving electromagnetic alternating fields generated by the operation of said electric motor;

~~an amplifier for amplification of the received signal between the antenna and the unit for analysis;~~

a unit for analysis of the received signals for signal components in the frequency range of the rotation value of electric motors or their harmonics, said unit including a bandpass filter unit with a bandpass width corresponding at least partially to the conventional prevalent frequency range of

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the rotation values of electric motors or the harmonics thereof and an analog/digital converter subsequent to the antenna and wherein the unit for analysis of the received signal is a device for digital signal processing;

an amplifier for amplification of the received signal between the antenna and the unit for analysis; and,

an indicator unit for signaling functionality, wherein the antenna includes one or more receiver coils.

23. A device according to Claim 17, wherein

the filter unit includes a filter with a bandpass width of approximately from 1 Hz to 1 kHz.

24. A device for testing electric motors for functionality, said device including:

an antenna for receiving electromagnetic alternating fields generated by the operation of said electric motor;

~~an amplifier for amplification of the received signal between the antenna and the unit for analysis;~~

a unit for analysis of the received signals for signal components in the frequency range of the rotation value of electric motors or their harmonics, said unit including a

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bandpass filter unit with a bandpass width corresponding at least partially to the conventional prevalent frequency range of the rotation values of electric motors or the harmonics thereof and an analog/digital converter subsequent to the antenna and wherein the unit for analysis of the received signal is a device for digital signal processing;

an amplifier for amplification of the received signal between the antenna and the unit for analysis; and

an indicator unit for signaling functionality,

wherein the bandpass filter includes a filter with a bandpass width of approximately from 100 Hz to 1 kHz.

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### ***Allowable Subject Matter***

3. The following is an examiner's statement of reasons for allowance: Prior art fails to show an antenna for receiving alternating electromagnetic fields in the vicinity of a motor, analyzing the received signal for signal components in the frequency range of the rotation value of the electric motor or their harmonics and indicating functionality.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to

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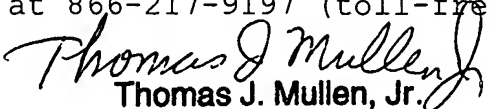
avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel J. Walk whose telephone number is (571) 272-2960. The examiner can normally be reached on M-F: 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Thomas J. Mullen, Jr.

Primary Examiner

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2-21-06